

<p style="text-align: center;"><b>ARIZONA DEPARTMENT OF AGRICULTURE</b></p> <p style="text-align: center;"><b><u>DIRECTOR'S ADMINISTRATIVE ORDER</u></b></p> <p style="text-align: center;"><b>PLANT SERVICES DIVISION</b></p> <p style="text-align: center;"><b>GLASSY-WINGED SHARPSHOOTER</b>  <i>Homalodisca coagulata</i>  <b>INTERIOR QUARANTINE</b></p>	<p><b><u>DIVISION/PROGRAM: PSD</u></b></p> <p><b><u>DAO 06 - 04</u></b></p> <p><b><u>/s/ Donald Butler</u></b></p> <hr/> <p><b>SIGNATURE</b></p> <p><b><u>5/01/06</u></b></p> <hr/> <p><b>EFFECTIVE DATE</b></p>
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# **1. PURPOSE**

This Order is issued to mitigate an immediate risk of infestation of glassy-winged sharpshooters in Arizona by increasing protection against the spread of the pest on nursery stock leaving the area under quarantine.

The glassy-winged sharpshooter (GWSS) is an effective vector of *Xylella fastidiosa*, a bacterial pathogen that causes devastating diseases in a wide variety of agronomic and horticultural crops, as well as landscape ornamentals and shade trees (Hopkins & Purcell, 2002; Purcell 1979; Purcell & Hopkins, 1996; Purcell et al., 1979, and Purcell et al., 1999.)

Some of these diseases are emerging as serious, destructive diseases of important crops (e.g., almond, citrus, coffee, grapevines, peaches, and plums) in North and/or South America. In addition, a number of other non-crop plant species are hosts for *Xylella fastidiosa* (Purcell et al., 1999.) Pierce's Disease is a threat to the Arizona wine and grape industry, estimated at \$18 million in revenue. If realized, the disease would be devastating to the industry.

The Order becomes effective when signed by the Director and will remain in effect until completion of the rulemaking process.

# **2. AUTHORITY**

A. R. S. § 3-201.01      Associate director; powers and duties

A. R. S. § 3-202.      Infested or infected plants as public nuisances

# **3. RESPONSIBILITY**

The Associate Director, managers and supervisors shall ensure that all employees of the Plant Services Division understand and properly enforce this Order.

# **4. APPLICABILITY**

This Order applies to the movement of regulated commodities from the area under quarantine.

# **5. ORDER**

A. Area under quarantine:

1. In Cochise County, the area described as Township 21 south Range 20 east, Township 21 south Range 21 east, Township 22 south 20 east, and Township 22 south Range 21 east.

2. Any other area in the state determined by the Director to be infested.
- B. Commodities covered.
1. All live life stages of GWSS
  2. Bulk shipments of unprocessed citrus
  3. Grape, propagative parts and fruit
  3. GWSS host plants
- C. Restrictions:
1. A person may ship a regulated commodity from the area under quarantine to any other area in the state if each shipment is accompanied by a certificate issued by an Arizona Department of Agriculture inspector attesting compliance with the following:
    - a. Grape plants intended for commercial planting outside the quarantine area:
      - (1). Grape plants and propagative parts except seed, leafless budwood, and leafless grafting wood shall have been treated with a chemical effective at killing all life stages of GWSS, and
      - (2). Grape plants and propagative parts except seed shall have:
        - (a) Been tested in a manner approved by the Director to ensure freedom from *Xylella fastidiosa*, or
        - (b) Originated from a nursery certified free of both GWSS and *Xylella fastidiosa* based on trapping and annual testing.
    - b. The GWSS host plants listed in the Appendix and their propagative parts, except leafless parts and seed, and cut flowers and cut foliage, shall have:
      - (1) Been treated with a chemical effective at killing all life stages of GWSS, or
      - (2) Originated from a nursery operating under a compliance agreement to ensure that plants are free of all live life stages of GWSS.
  2. Bulk shipments of unprocessed grapes are prohibited.
  3. All live life stages of GWSS are prohibited.

## APPENDIX – GWSS HOST PLANTS

Abelia spp.	Abelia	Brunfelsia spp.	Brunfelsia
Acacia spp.	Acacia	<i>Buddleja</i> spp.	Butterfly bush
Acer spp.	Japanese maple	Buxus spp.	Boxwood
Aeonium spp.	Aeonium	Calliandra spp.	Powderpuff
Aeschynanthus spp.	Basket plant	Callistemon spp.	Bottlebrush
Agapanthus spp.	Agapanthus	Calodendrum spp.	Cape chestnut
Agonis spp.	Willow myrtle	Camellia spp.	Camellia
Ajuga spp.	Bugleweed	Campsis spp.	Trumpet creeper
Albizia spp.	Albizzia	Canna spp.	Canna
Aleurites spp.	Aleurites	Capsicum spp.	Pepper, chili
Alnus spp.	Alder	Carica spp.	Papaya
Althaea spp.	Hollyhock	Carissa spp.	Natal plum
Amaranthus spp.	Amaranth	<i>Caryota</i> spp.	Fishtail palm
Ambrosia spp.	Ragweed	Cassia spp.	Senna
Amelanchier spp.	Serviceberry	Castanopsis spp.	Chinquapin
Ananas spp.	Ananas	Castanospermum spp.	Castanospermum
Annona spp.	Annona (Cherimoya)	Catalpa spp.	Catawba
Antirrhinum spp.	Snapdragon	Ceanothus spp.	Redroot
Aptenia spp.	Aptenia	Ceratonia spp.	Carob
Aralia spp.	Japanese aralia	Ceratostigma spp.	Ceratostigma
Arbutus spp.	Strawberry tree	Cercidium spp.	Palo Verde
Archontophoenix spp.	Seaforthia	Cercis spp.	Redbud
Arctostaphylos spp.	Manzanita	Cercocarpus spp.	Mountain mahogany
Arecastrum (Syagrus) spp.	Queen Palm	<i>Chamaedorea</i> spp.	Palms
Arecastrum spp.	Arecastrum	Chenopodium spp.	Lambsquarter
Aronia spp.	Chokecherry	<i>Chilopsis</i> spp.	Desert willow
Asclepias spp.	Milkweed	Chionanthus spp.	Fringe tree
Asparagus spp.	Asparagus	Chitalpa spp.	Chitalpa
Aspidistra spp.	Aspidistra	Chlorophytum spp.	St. Bernard's lily
Baccharis spp.	Baccharis	Chorisia spp.	Floss-silk tree
Bauhinia spp.	Bauhinia	Chrysanthemum spp.	Chrysanthemum
Berberis spp.	Barberry	Cinnamomum spp.	Cinnamomum
Betula spp.	Birch	Cissus spp.	Grape ivy
Bignonia spp.	Bignonia	Cistus spp.	Rock rose
Bougainvillea spp.	Bougainvillea	Citrus spp.	Citrus
Brachychiton spp.	Bottle tree		

<i>Clematis</i> spp.	Evergreen clematis	Gazania spp.	Gazania
<i>Clytostoma</i> spp.	Clytostoma	Geijera spp.	Geijera
<i>Cocculus</i> spp.	Cocculus	Gelsemium spp.	Yellow jessamine
<i>Cocos</i> spp.	Cocos	<i>Gerbera</i> spp.	Transvaal
<i>Coffea</i> spp.	Coffee	Ginkgo spp.	Ginkgo
<i>Coprosma</i> spp.	Coprosma	Gladiolus spp.	Gladiolus
<i>Cordyline</i> spp.	Ti	Gossypium spp.	Cotton
<i>Cornus</i> spp.	Dogwood	Grevillea spp.	Spider flower
<i>Cotoneaster</i> spp.	Cotoneaster	Grewia spp.	Grewia
<i>Crassula</i> spp.	Crassula	Hardenbergia spp.	Hardenbergia
<i>Cupaniopsis</i> spp.	Cupaniopsis	Harpephyllum spp.	Kaffir plum
<i>Cycas</i> spp.	Cycad	Hedera spp.	Ivy
<i>Dalbergia</i> spp.	Indian rosewood	Helianthus spp.	Sunflower
<i>Datura</i> spp.	Jimsonweed	Hemerocallis spp.	Daylily
<i>Dianthus</i> spp.	Dianthus	Heteromeles spp.	Toyon
<i>Dietes</i> spp.	Dietes	Hibiscus spp.	Hibiscus
<i>Diospyros</i> spp.	Persimmon	Howea spp.	Sentry palm
<i>Dodonaea</i> spp.	Dodonaea	<i>Hydrangea</i> spp.	Hydrangea
<i>Elaeagnus</i> spp.	Elaeagnus	Hymenosporum spp.	Hymenosporum
<i>Elaeocarpus</i> spp.	Elaeocarpus	Hypericum spp.	St. John's-wort
<i>Ensete</i> spp.	Ensete	Ilex spp.	Holly
<i>Erigeron</i> spp.	Fleabane	<i>Ipomea</i> spp.	Morning Glory
<i>Eriobotrya</i> spp.	Eriobotrya	Itea spp.	Itea
<i>Erythrina</i> spp.	Coral tree	Jacaranda spp.	Green ebony
<i>Escallonia</i> spp.	Escallonia	Jasminum spp.	Jasmine
<i>Eucalyptus</i> spp.	Eucalyptus	Juglans spp.	Walnut
<i>Eugenia</i> spp.	Eugenia	Koelreuteria spp.	Golden-rain tree
<i>Euonymus</i> spp.	Euonymus	Lactuca spp.	Lettuce
<i>Eupatorium</i> spp.	Boneset	Lagerstroemia spp.	Crape myrtle
<i>Euryops</i> spp.	Euryops	Lantana spp.	Shrub verbena
<i>Fatsyhedera</i> spp.	Aralia ivy	Laurus spp.	Laurel
<i>Fatsia</i> spp.	Japanese fatsia	<i>Leucophyllum</i> spp.	Texas Ranger
<i>Feijoa</i> spp.	Feijoa	<i>Leucospermum</i> spp.	Pincushion
<i>Ficus</i> spp.	Fig	Ligustrum spp.	Privet
<i>Forsythia</i> spp.	Golden-bells	Limonium spp.	Statice
<i>Fortunella</i> spp.	Kumquat	Lippia spp.	Lippia
<i>Fraxinus</i> spp.	Ash	Liquidambar spp.	Sweet gum
<i>Gardenia</i> spp.	Gardenia	Liriodendron spp.	Tulip tree

<i>Liriope</i> spp.	Giant turf lily	<i>Pelargonium</i> spp.	<i>Pelargonium</i>
Litchi spp.	Lychee	Penstemon spp.	Beard-tongue
Lonicera spp.	Honeysuckle	<i>Pereskia</i> spp.	Barbados Gooseberry
Loropetalum spp.	Loropetalum	Persea spp.	Avocado
Macadamia spp.	Macadamia	Philadelphus spp.	Mock orange
Magnolia spp.	Magnolia	Philodendron spp.	Philodendron
Malus spp.	Apple	Phlox spp.	Phlox
Malva spp.	Mallow	Phoenix spp.	Date palm
Mandevilla spp.	Mandevilla	Phormium spp.	Flax lily
Mangifera spp.	Mango	Photinia spp.	Photinia
Maytenus spp.	Maytenus	Phyla spp.	Frogfruit
Melaleuca spp.	Honey myrtle	Phytolacca spp.	Pokeweed
Melia spp.	Chinaberry	Pinus spp.	Pine
Metrosideros spp.	Metrosideros	Pistacia spp.	Pistachio
Michelia spp.	Champak	Pittosporum spp.	Pittosporum
Mirabilis spp.	Umbrella wort	Platanus spp.	Sycamore
Monarda spp.	Wild bergamot	Platycerium spp.	Staghorn fern
Morus spp.	Mulberry	Plumbago spp.	Leadwort
Murraya spp.	Orange jessamine	Podocarpus spp.	Podocarpus
Musa spp.	Banana	Polygala spp.	Milkwort
Myoporum spp.	Myoporum	Polygonum spp.	Polygonum
Myrsine spp.	Myrsine	Populus spp.	Cottonwood
Myrtus spp.	Myrtle	Portulacaria spp.	Portulacaria
Nandina spp.	Nandina	Protea spp.	Protea
Nephrolepis spp.	Sword fern	Prunus spp.	Prunus
Nerium spp.	Oleander	Psidium spp.	Guava
Nicotiana spp.	Tree tobacco	Punica spp.	Pomegranate
Nyssa spp.	Tupelo	Pyracantha spp.	Pyracantha/Firethorn
Oenothera spp.	Evening primrose	Pyrus spp.	Pear
Olea spp.	Olive	Quercus spp.	Oak
Opuntia spp.	Cactus	Raphiolepis spp.	Raphiolepis
Osmanthus spp.	Osmanthus	Rhamnus spp.	Buckthorn
Osteospermum spp.	Osteospermum	Rhododendron spp.	Azalea
Pachysandra spp.	Spurge	Rhus spp.	Sumac
Pandorea spp.	Pandorea	Robinia spp.	Locust
Par kinsonia sp.	Mexican palo verd	Rosa spp.	Rose
Parthenocissus spp.	Woodbine	Rubus spp.	Blackberry
Passiflora spp.	Passion fruit	Rudbeckia spp.	Coneflower

Salix spp.	Willow	Wisteria spp.	Wisteria
Salvia spp.	Sage	Xanthium spp.	Cocklebur
Sambucus spp.	Elderberry	Xylosma spp.	Xylosma
Sapium spp	Sapium	Yucca spp.	Yucca
Sarcocca spp.	Sweet box	Zantedeschia spp.	Calla lily
Sassafras spp.	Sassafras	Zea spp.	Zea
Schefflera spp.	Umbrella tree		
Schinus spp.	Schinus		
Schlumbergera spp.	Christmas cactus		
Simmondsia spp.	Joboba		
Solanum spp.	Solanum		
Solidago spp.	Goldenrod		
Sonchus spp.	Sonchus		
Sorbus spp.	Mountain ash		
Sorghum spp.	Sorghum		
Strelitzia spp.	Bird of paradise		
Syringa spp.	Lilac		
Syzygium spp.	Syzygium		
Tabebuia spp.	Trumpet tree		
Tecomaria spp.	Tecomaria		
Ternstroemia spp.	Ternstroemia		
Thuja spp.	Arborvitae		
Tipuana spp.	Tipu Tree		
Trachelospermum spp.	Trachelospermum		
Tradescantia spp.	Spiderwort		
Tristania spp.	Tristania		
Tulbaghia spp.	Tulbaghia		
Tupidanthus spp.	Tupidanthus		
Ulmus spp.	Elm		
Vauquelinia spp.	Arizona rosewood		
Veronica spp.	Speedwell		
Viburnum spp.	Viburnum		
Vigna spp.	Vigna		
Vinca spp.	Periwinkle		
Viola spp.	Violet		
Vitis spp.	Grape		
Washingtonia spp.	Washington palm		